openreach

SIN 312

Issue 1.13

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Suppliers' Information Note

For The Openreach Network

BT ISDN SERVICES OVERVIEW and

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1. INTRODUCTION

1.1 BT launched an ISDN service some years prior to the completion of the European ISDN standards published by the European Telecommunications Standards Institute (ETSI) using a mixture of international and BT customised signalling standards. Subsequently the BT ISDN service has been enhanced to become fully compliant with the ETSI Standards. The benefits of an ISDN service compliant to the ETSI standards are:

- Pan-European Service
- An increased choice and European wide availability of CPE
- Future proofing the customer's service
- Additional Digital Calling Features.

NOTE: From 1st September 1999, all supplementary services provided on BT's ISDN Services were re-branded as "Digital Select Services". Following a subsequent re-branding exercise these services are now called Digital Calling Features.

1.2 A number of ISDN related SINs have been published since BT launched its first ISDN service and the purpose of this SIN is to provide an overview of BT's ISDN services and index the SINs related to them. An overview of the ISDN related SINs in tabular form is given in Annex A.

2. BT ISDN SERVICES CURRENTLY AVAILABLE

The ISDN 2 and ISDN 30 Services currently offered by Openreach are supported on two network platforms, the *limited ETSI call control* platform and the *full ETSI call control* platform.

2.1 ISDN SERVICES ON THE *LIMITED ETSI CALL CONTROL* PLATFORM

The *limited ETSI call control* platform was designed and implemented prior to the completion of the European ISDN standards published by the European Telecommunications Standards Institute (ETSI). This network platform uses call

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control aligned with the existing implementation and as a consequence, the platform has restricted the capability to evolve to support the full range of ISDN Services as defined by ETSI.

The ISDN services supported on the *limited ETSI call control* network platform are:

- BT ISDN 2 Service as defined in SIN 171 [1]
- BT ISDN 30 (DASS) Service as defined in SIN 222 [2]
- BT ISDN 30 (I.421) Service as defined in SIN 232 [3].

Openreach currently has no plans to enhance the BT ISDN services provided on the *limited ETSI call control* platform. Any changes to these services will either be published in a new issue of the appropriate SIN above or else as a new SIN.

Openreach will withdraw the ISDN2 and ISDN30 services provided by both the limited ETSI call control platform and the full ETSI call control platform the end of January 2027 in line with the closure of the BT UK PSTN.

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2.2 ISDN SERVICES ON THE *FULL ETSI CALL CONTROL* PLATFORM

The BT Euro-ISDN network platform which uses call control procedures fully aligned with the ISDN architecture as defined by the European (i.e. ETSI) standards is referred to as the *full ETSI call control* network platform.

2.2.1 Circuit Switched Services

The ISDN circuit switched services supported on the *full ETSI call control* network platform are:

- BT ISDN 2e Service as defined in SIN 261 [4] and SIN 368 [9]
- BT ISDN 30e Service as defined in SIN 261 [4] and SIN 368 [9]

Note 1: The term ISDN 2 is the BT name for the ISDN basic access service provided on the *limited ETSI call control* network platform (SIN171).
The term ISDN 2e is the BT name for its ISDN basic service supported on the *full ETSI call control* network platform (SIN 261).

Note 2: The term ISDN 30 (I.421) is the brand name for the BT ISDN primary rate access service defined in SIN 232 provided on the *limited ETSI call control* network platform. The term ISDN 30e is the BT name for its ISDN 30 (I.421) primary rate access service supported on the *full ETSI call control* network platform (SIN 261).

3. SERVICE AVAILABILITY

3.1 For details of BT ISDN 2e and ISDN 30e Services supported on the BT *full ETSI call control* network platform see SIN 261.

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3.2 Please note that the international unrestricted 64 kbit/s bearer service has been withdrawn in light of transition to IP working. This change was briefed out directly to UK CPs, who buy interconnect products, via BT Wholesale in March 2017 and was announced in Issue 1.12 of the SIN.

ISDN unrestricted 64 kit/s bearer service calls to overseas destinations may therefore be rejected by the network as international connections transition to IP and a "clearmode" alternative is not available.

3.3 All new provision of ISDN basic and primary rate access services offering the ETSI customer-network interface will be on the *full ETSI call control* network platform.

- ISDN Basic Access: all new provision of ISDN basic access services will be on the *full ETSI call control* network platform ie will be the ISDN 2e service. This includes additional accesses to existing ISDN 2 hunt groups where the existing accesses have previously been provided on the *limited ETSI call control* network platform. Therefore since ISDN 2 and ISDN 2e cannot (for technical reasons) be provided as part of the same hunt group, if an existing ISDN 2 hunt group needs additional channels then the whole hunt group installation will need to be upgraded to ISDN 2e. (Note: DDI on ISDN 2e is only provided on T reference point configured lines as opposed to ISDN 2 which only support combined S/T reference point).
- ISDN Primary Rate: all new provision of ETSI ISDN primary rate services will be on the *full ETSI call control* network platform ie will be the ISDN 30e service. Additions to existing ISDN 30 (I.421) service previously provided on the *limited ETSI call control* network platform may be supported but as previously announced in SIN 232, BT is now in the process of withdrawing ISDN 30 (I.421).

  Note: ISDN 30 (I.421) access supported on the *limited ETSI call control* and ISDN 30e supported on the *full ETSI call control* network platform cannot (for technical reasons) be provided as part of the same hunt group.

  Provision of ISDN 30 (DASS) services will be continued.

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3.3 BT is now in the process of withdrawing BT ISDN 2 and ISDN 30 (I.421) Services supported on the *limited ETSI call control* network platform (as previously announced in SINs 171 and 232 respectively).

3.4 Customers on the BT ISDN 30 (DASS) Service will not be moved onto the ISDN 30e service supported on the BT *full ETSI call control* network platform unless the customer requests such a move. BT has no plans to enhance the ISDN 30 (DASS) service. The BT ISDN 30 (DASS) Service will continue to be supported on the Openreach 21CN network platform.

4. INDEX TO BT ISDN RELATED SINs

This section lists all SINs currently available that are related to BT s ISDN services. SINs are available from https://www.openreach.co.uk/orpg/home/helpandsupport/sins/sins.do

SINs applicable to ISDN Services on the *Limited ETSI Call Control* Platform

SIN 171 [1] BT ISDN 2 National Service using limited ETSI call control - Service Description
SIN 256 BT ISDN 2 Service - Evolution to European Standard (ETSI) ISDN - Changes to an existing network service. Now withdrawn (information incorporated into SIN 171 Issue 8 and later)
SIN 222 [2] BT ISDN 30 (DASS) Service - Service Description
SIN 232 [3] BT ISDN 30 (I421) National Service using limited ETSI call control - Service Description

SINs applicable to ISDN Services on the *Full ETSI Call Control* Platform

SIN 261 [4] BT ISDN 2e and ISDN 30e National Service using full ETSI call control - Service Description
SIN 368 [9] Index of Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e Customer Interfaces
SIN 369 [10] Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Basic Call Control and Basic Services
SIN 370 [11] Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Digital Select Services

SIN 277 Impact on Terminal Equipment of changes to the dialled digit numbering in the public PSTN and ISDN. Now withdrawn and relevant ISDN information incorporated into Annex C of SIN 261, Issue 5.3 and later

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SINs applicable to ISDN Services on both *Limited ETSI Call Control* and *Full ETSI Call Control* Platforms

SIN 243 [6] ISDN International Interworking
SIN 312 BT ISDN Services Overview (i.e. this document)

5. FUTURE DEVELOPMENTS

This document will be updated to reflect any enhancements or changes to the ISDN services offered by Openreach.

6. CONTACT POINTS

If you have questions relating to this document then please contact
orsinsfa@openreach.co.uk

7. REFERENCES

Ref. No.	Document Number	Title
1	SIN 171	BT ISDN 2 National Service using limited ETSI call control - Service Description
2	SIN 222	BT ISDN 30 (DASS) Service - Service Description
3	SIN 232	BT ISDN 30 (I.421) National Service using limited ETSI call control - Service Description
4	SIN 261	BT ISDN 2e and ISDN 30e National Service using full ETSI call control - Service Description

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Ref. No.	Document Number	Title
5	Intentionally left blank	
6	SIN 243	ISDN International Interworking
7	Intentionally left blank	
8	SIN 367	Characteristics of the BT Network: Electrical Safety and EMC
9	SIN 368	Index of Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e Customer Interfaces
10	SIN 369	Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Basic Call Control and Basic Services
11	SIN 370	Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Digital Select Services

SINs are available as .pdf (portable document format) files from the WWW site at https://www.openreach.co.uk/orpg/home/helpandsupport/sins/sins.do

8. GLOSSARY

CPE - Customer Premises Equipment
DASS - Digital Access Signalling System
ETSI - European Telecommunications Standards Institute
ISDN - Integrated Services Digital Network
PICS - Protocol Implementation Conformance Statement

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PSTN - Public Switched Telephone Network
SIN - Suppliers' Information Note

9. HISTORY

Issue 1 Issue 1.1 Issue 1.2 Issue 1.3 Issue 1.4	June 1998 January 1999 December 1999 November 2000 November 2001
Issue 1.5 Issue 1.6	December 2003 July 2004
Issue 1.7	September 2006
Issue 1.8	July 2007
Issue 1.9	May 2008
Issue 1.10	January 2009
Issue 1.11	April 2015 (Change SINet site references from http://www.sinet.bt.com to http://www.btplc.com/sinet/)
Issue 1.12	Withdraw notice added to Section 3 for ISDN 64 kbit/s unrestricted bearer service calls to overseas destinations. BT branding and links removed to Openreach
Issue 1.12	Annual Review – no changes made – issue number therefore remains the same
Issue 1.12 June 2022	Annual Review – no changes made – issue number therefore remains the same

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Issue 1.12 June 2023	Annual Review – no changes made – issue number therefore remains the same
Issue 1.13 November 2024	Service Withdrawal notification added Section 1.

ANNEX A - SUMMARY OF SINS RELATING TO BT ISDN SERVICES

Overview of ISDN SINs [this SIN] (SIN 312)					
Limited ETSI Call Control			*Full ETSI Call Control*		**General**
ISDN 2	ISDN 30 (DASS)	ISDN 30 (I.421)	ISDN 2e	ISDN 30e	

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SIN 171 [1]	SIN 222 [2]	SIN 232 [3]	SIN 261 [4]	SIN 243 [6] (International Interworking)
			SIN 368 [9] (PICS Overview) SIN 369 [10] (Basic Call Control PICS) SIN 370 [11] (Digital Calling Features PICS)	

- Note: Only SINs contain information relating specifically to the ISDN are listed above. There are other SINs that are relevant to switched services be they on PSTN or ISDN e.g.: SIN 367 [8] (Characteristics of the BT Network: Electrical Safety and EMC),

- End of Annex A -

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ANNEX B - DIFFERENCES COMPARED TO PREVIOUS ISSUE OF SIN 312

This Annex provides a brief description of the major changes between this issue (1.10) of Suppliers Information Note 312 and the previous issue (1.9). Please refer to the main body of the document for full descriptions of each topic, particularly as a number of editorial changes have also been made throughout this issue of the document.

DESCRIPTION	REF. SECTION
SIN updated to take account of removal of SINs 225, and 275 following previous notification of the withdrawal of the ISDN services defined in those SINs.	Throughout

Table A.1 - List of major changes from previous issue of SIN 312

- End of Annex B -